



Water and Climate Update

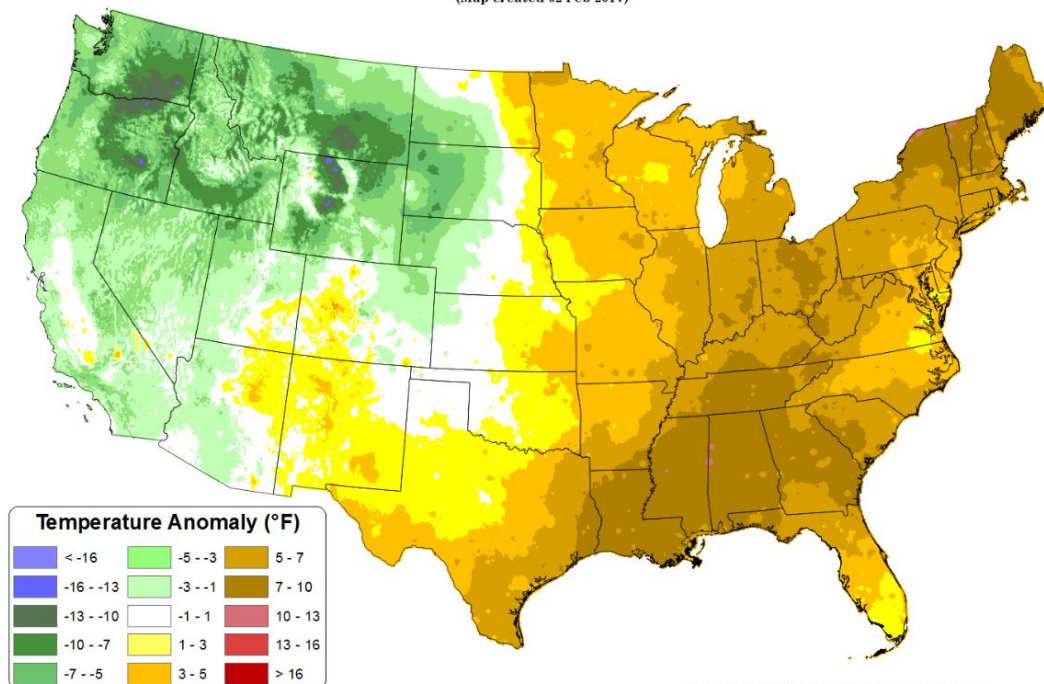
February 2, 2017

The Natural Resources Conservation Service produces this weekly report using data and products from the [National Water and Climate Center](#) and other agencies. The report focuses on seasonal snowpack, precipitation, temperature, and drought conditions in the U.S.

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January temperatures cold in West, warm in East

Daily Mean Temperature Anomaly: January 2017
Period ending 7 AM EST 31 Jan 2017
Base period: 1981-2010
(Map created 02 Feb 2017)

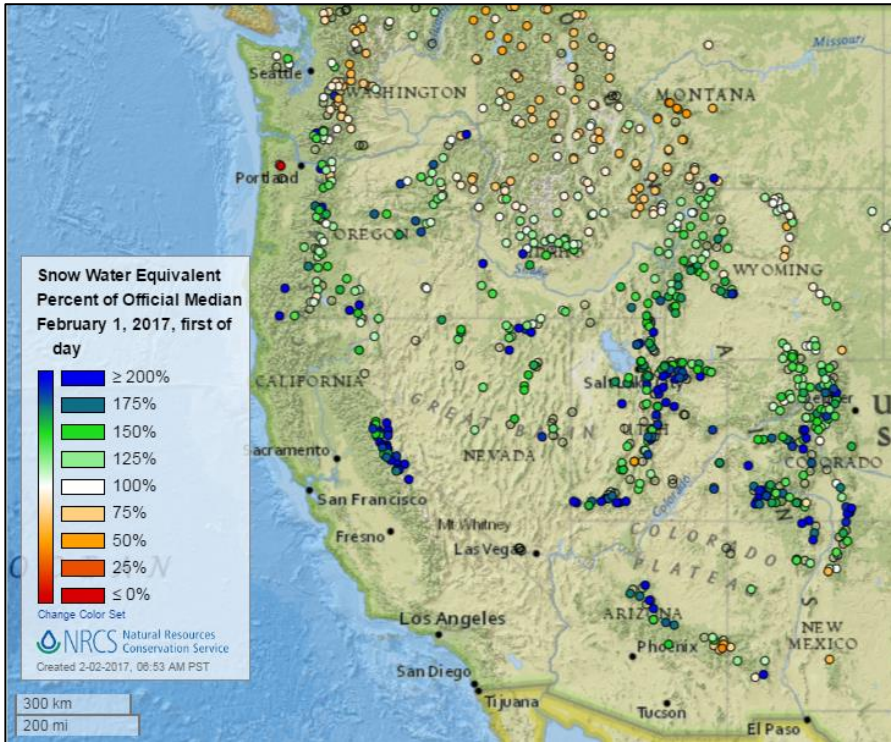


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January temperature anomalies as reported by the Oregon State University [PRISM](#) Climate Group were much above normal in the East. The highest 7- to 10-degree departures from normal were in several areas from northern New England through the Ohio Valley, and a large area of the South from Texas to South Carolina. Most of the West reported below normal temperatures, with the largest departures of 10 to 13 degrees reported in eastern Oregon and Washington, and Wyoming.

Snow

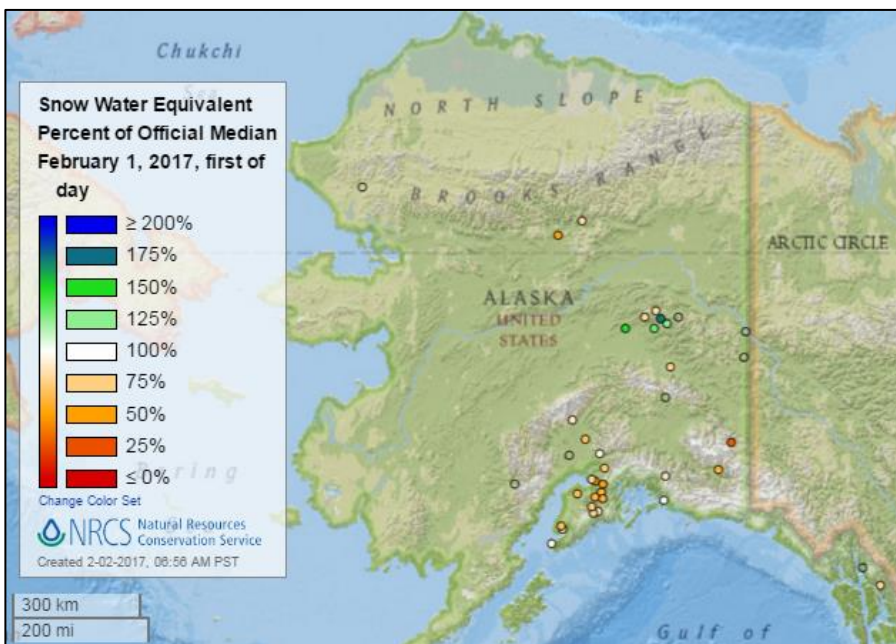
Current Snow Water Equivalent, NRCS SNOTEL Network



[Snow water equivalent percent of median map](#)

See also:

[Snow water equivalent values \(inches\) map](#)

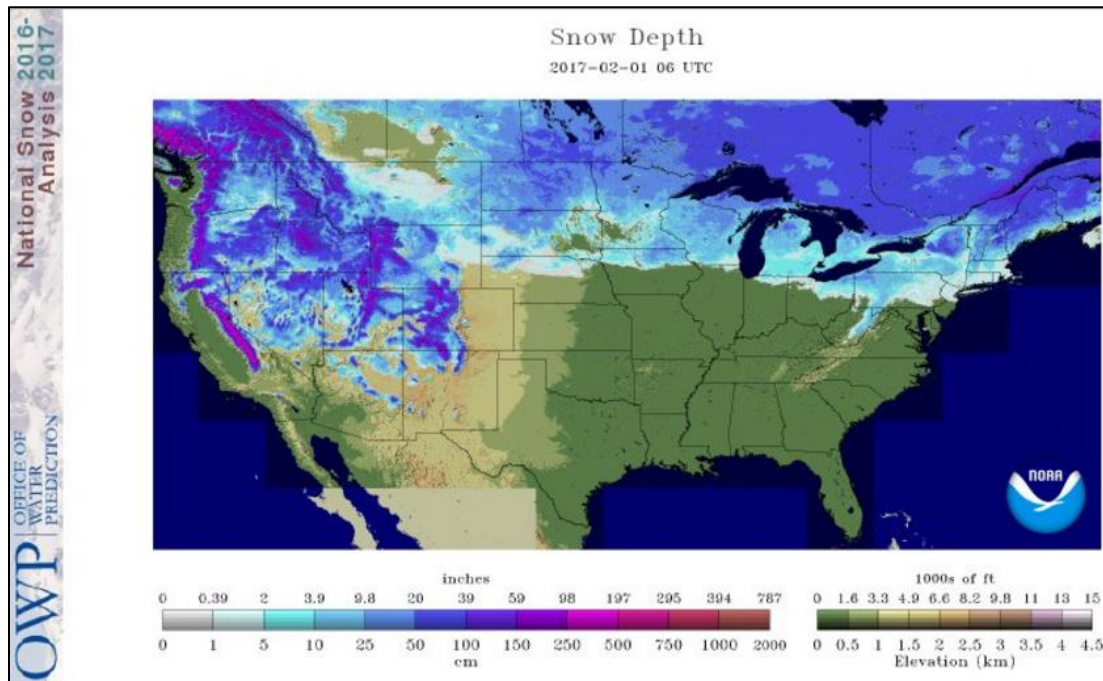


[Alaska snow water equivalent percent of median map](#)

See also:

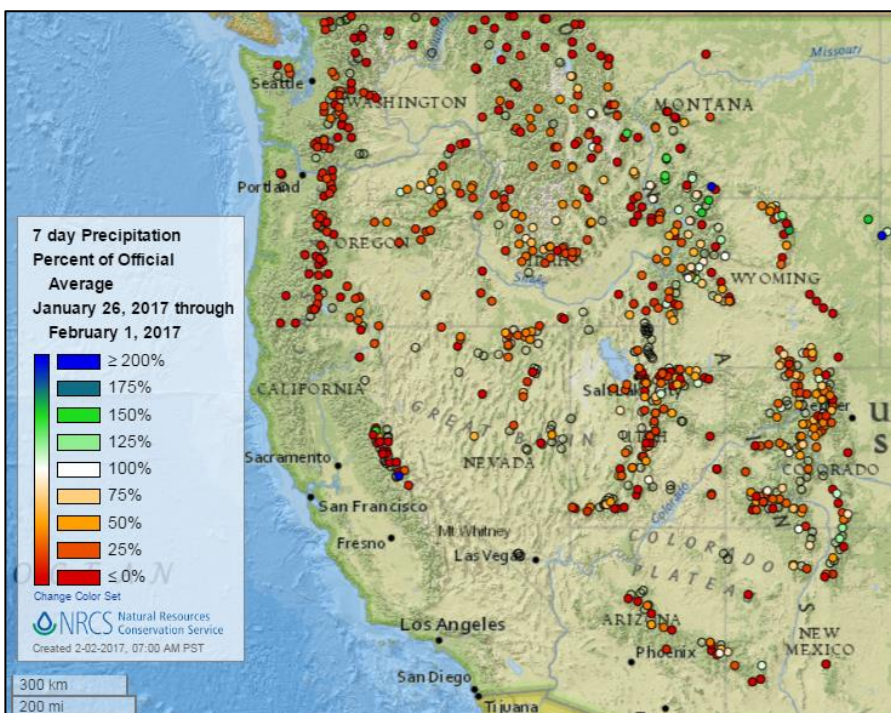
[Alaska snow water equivalent values \(inches\) map](#)

Current Snow Depth, National Weather Service (NWS) Networks



Precipitation

Last 7 Days, Western Mountain Sites (NRCS SNOTEL Network)

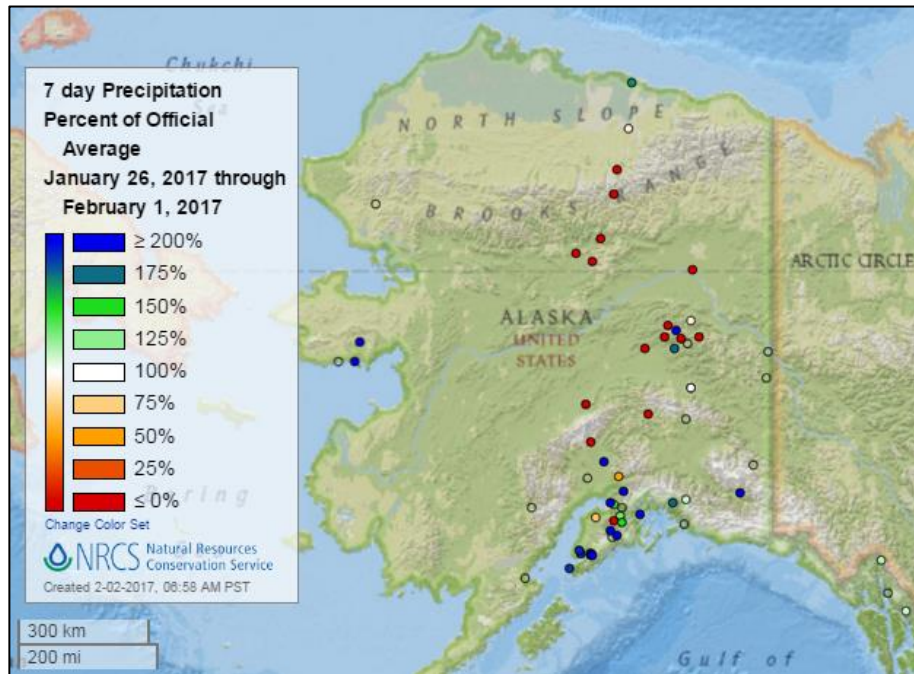


[7-day precipitation percent of average map](#)

See also:
[7-day total precipitation values \(inches\) map](#)

[Alaska 7-day precipitation percent of average map](#)

See also: [Alaska 7-day total precipitation values \(inches\) map](#)



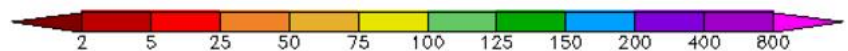
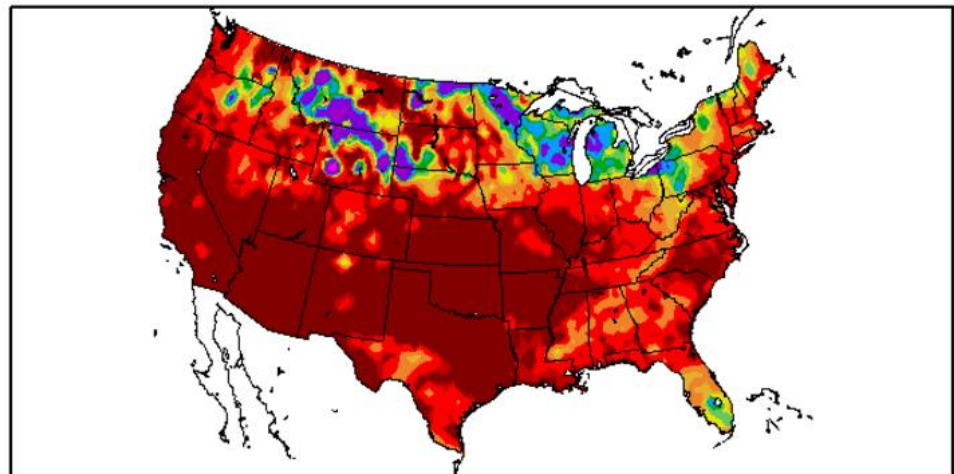
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day precipitation percent of normal map](#) for the continental U.S.

See also: [7-day total precipitation values \(inches\) map](#)

Percent of Normal Precipitation (%)
1/26/2017 – 2/1/2017

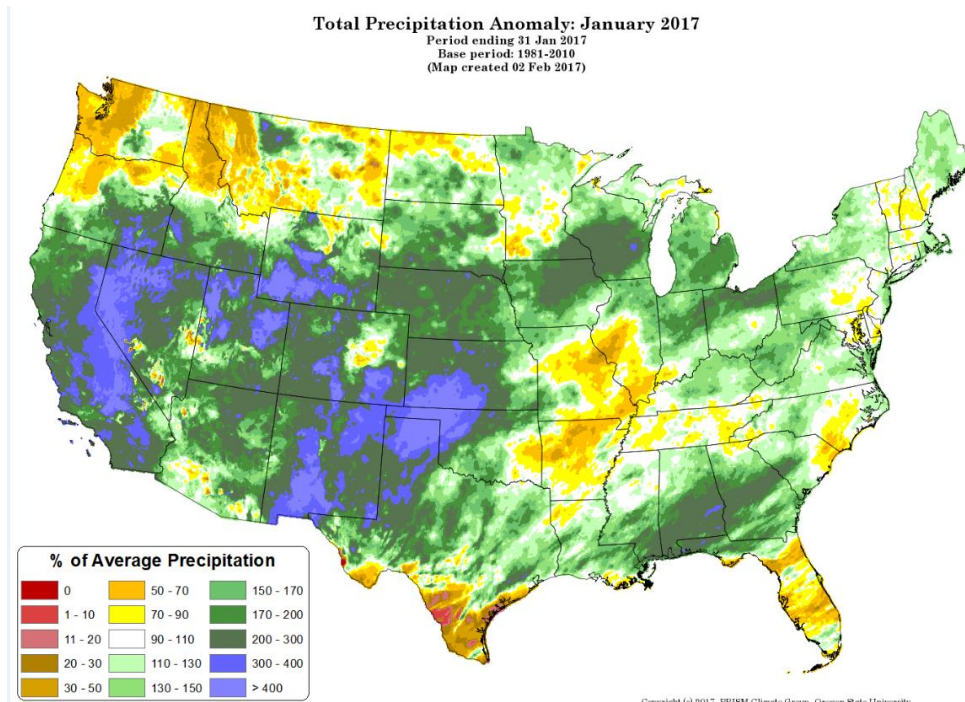


Generated 2/2/2017 at HPRCC using provisional data.

Regional Climate Centers

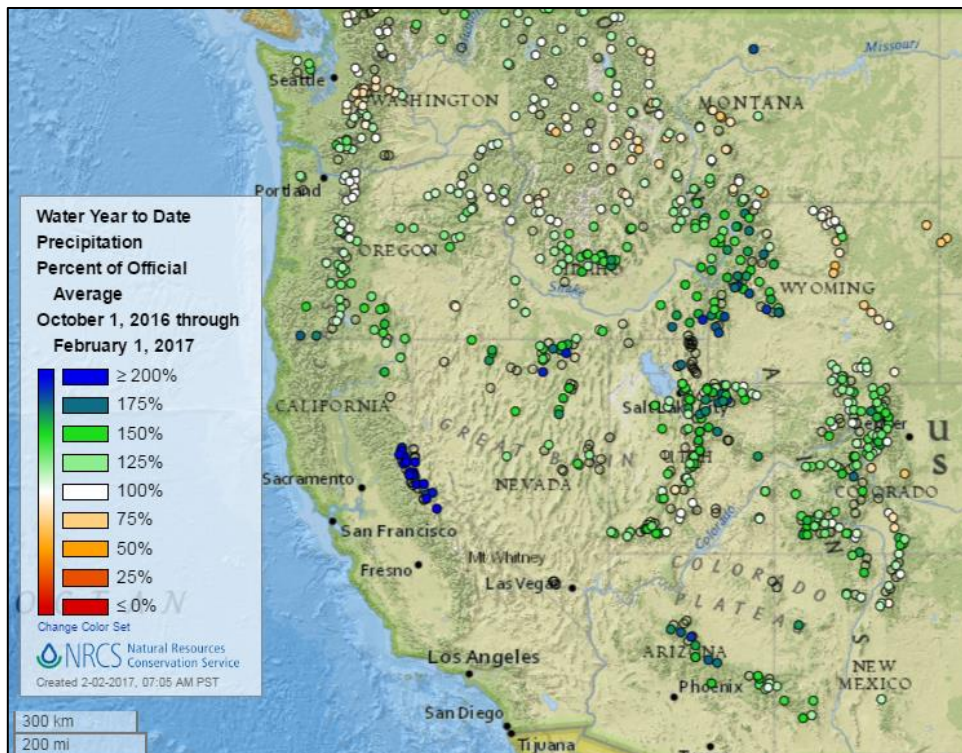
Previous Month, All Available Data Including SNOTEL and NWS Networks

Source: PRISM



[Previous month national precipitation percent of average map](#)

Water Year-to-Date, Western Mountain Sites (NRCS SNOTEL Network)



[2017 water year-to-date precipitation percent of average map](#)

See also: [2017 water year-to-date precipitation values \(inches\)](#)



[Alaska 2017 water year-to-date precipitation percent of average map](#)

See also: [Alaska 2017 water year-to-date precipitation values \(inches\) map](#)

Temperature

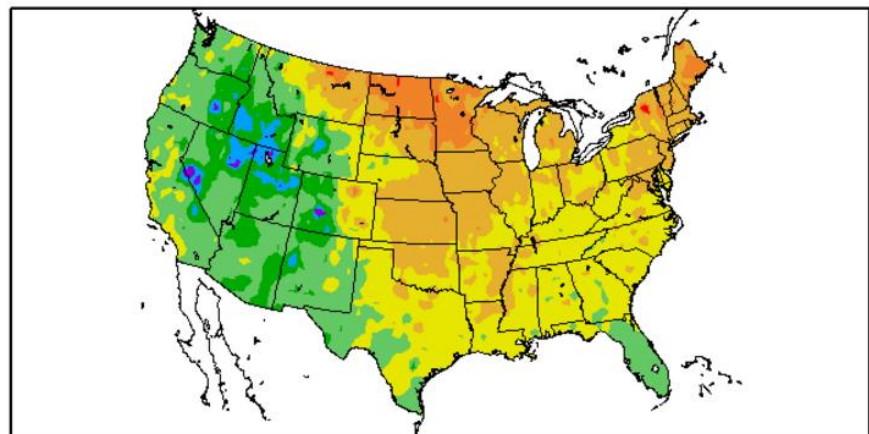
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for the continental U.S.

See also: [7-day temperature \(° F\) map](#)

Departure from Normal Temperature (F)
1/26/2017 – 2/1/2017



Generated 2/2/2017 at HPRCC using provisional data.

Regional Climate Centers

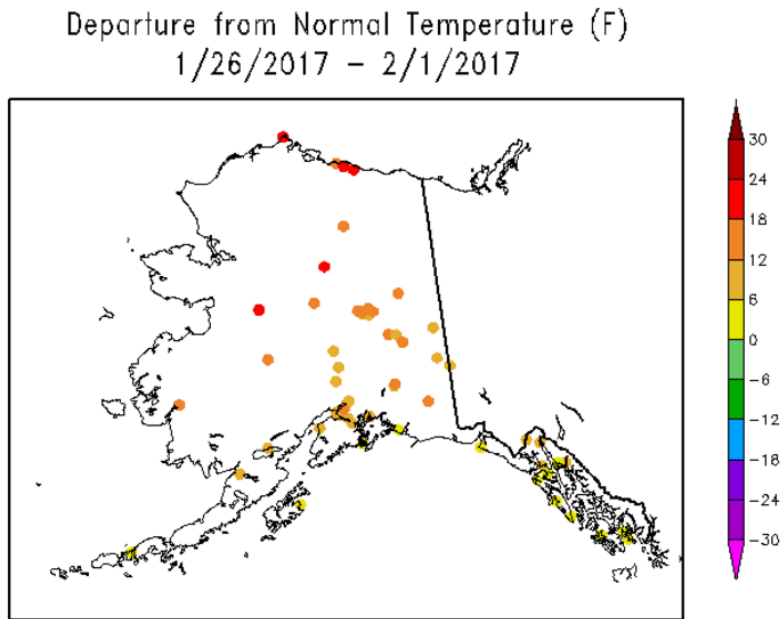
Water and Climate Update

Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for Alaska.

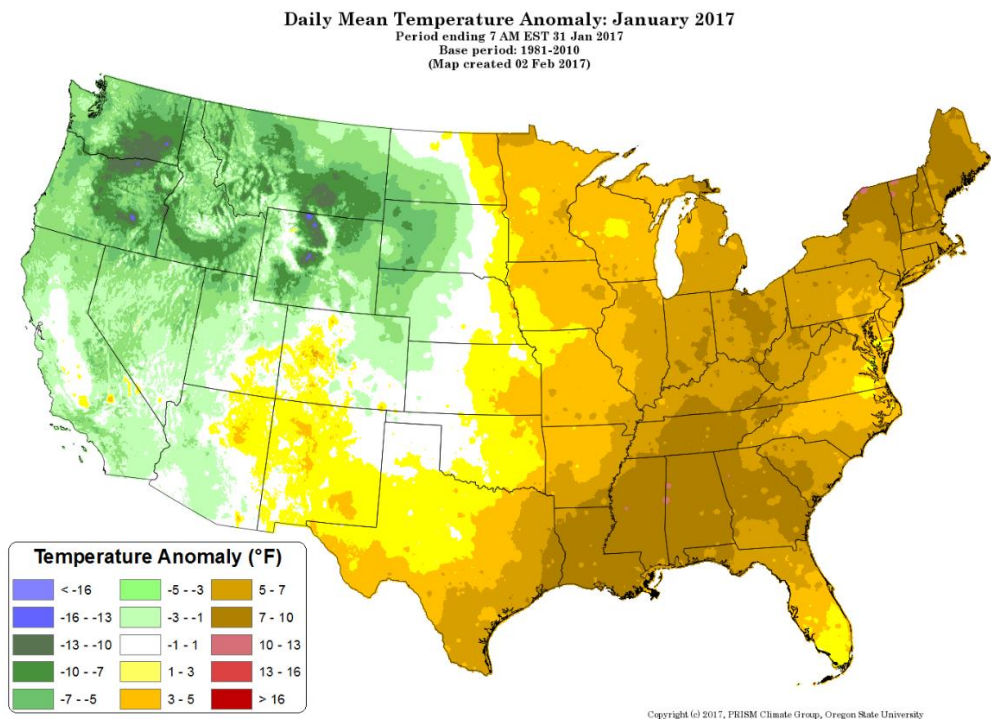
See also: [7-day temperature \(° F\) map](#)



Previous Month, All Available Data Including SNOTEL and NWS Networks

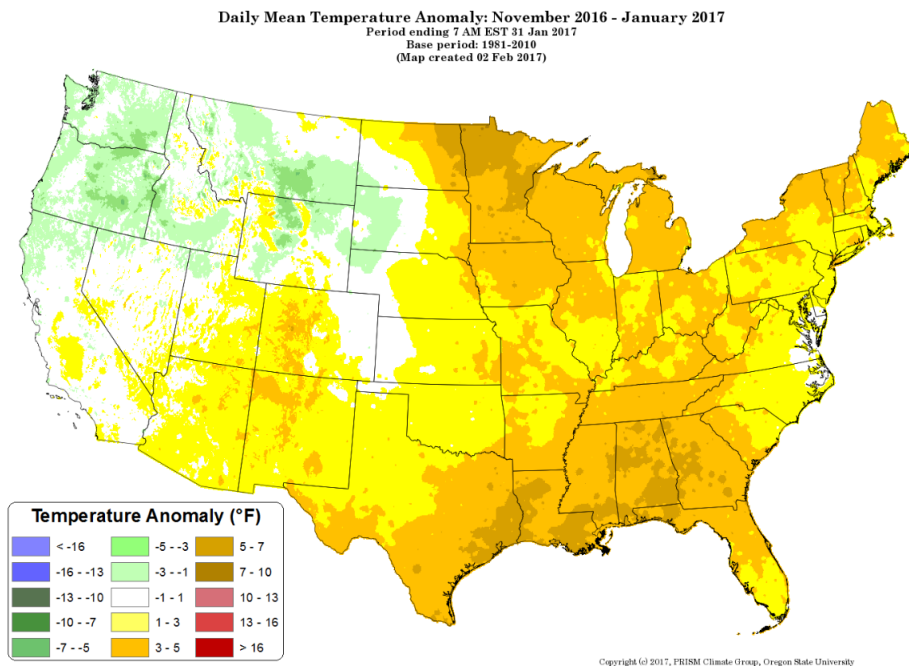
Source: PRISM

[Previous month national daily mean temperature anomaly map](#)



Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

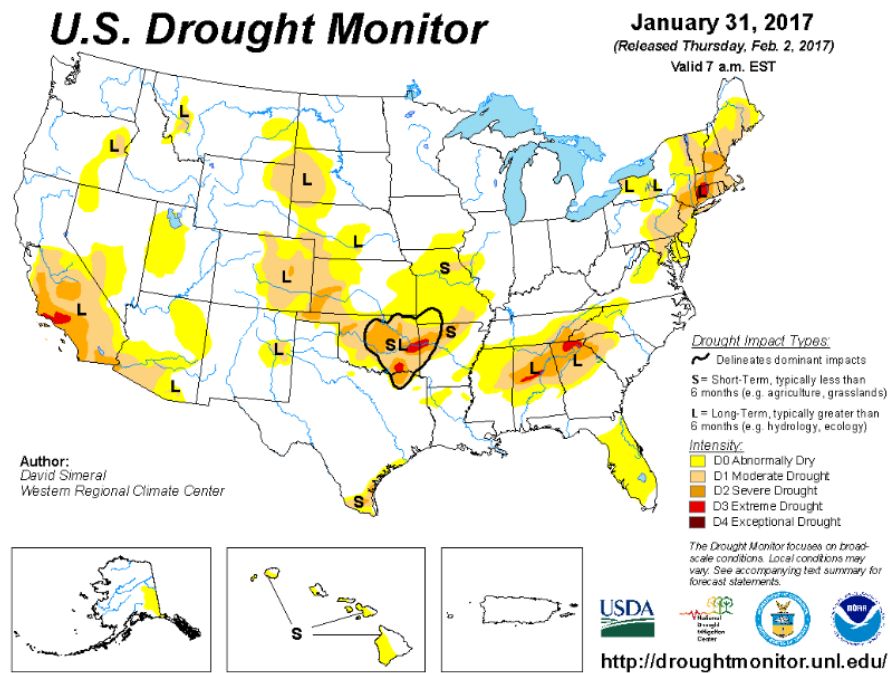


[November 2016 through January 2017 daily mean temperature anomaly map](#)

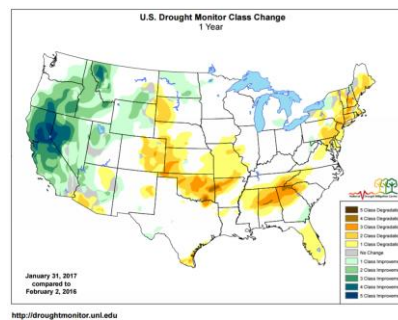
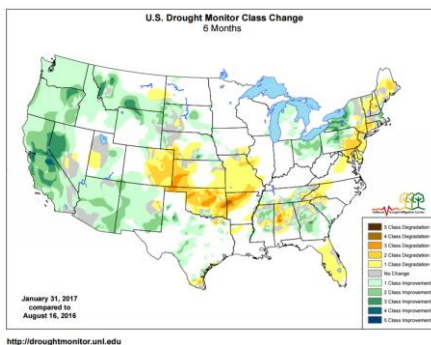
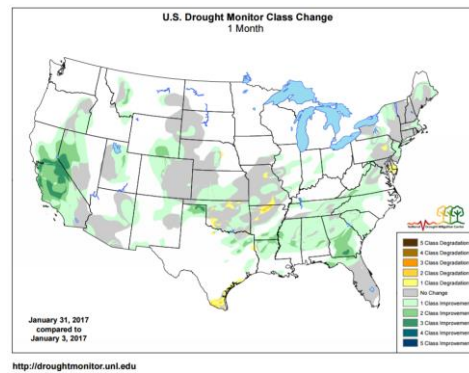
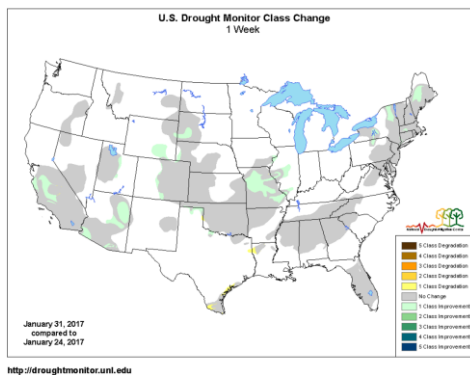
Drought

[U.S. Drought Monitor](#) See map below.

[U.S. Drought Portal](#) Comprehensive drought resource.



Changes in Drought Monitor Categories over Time



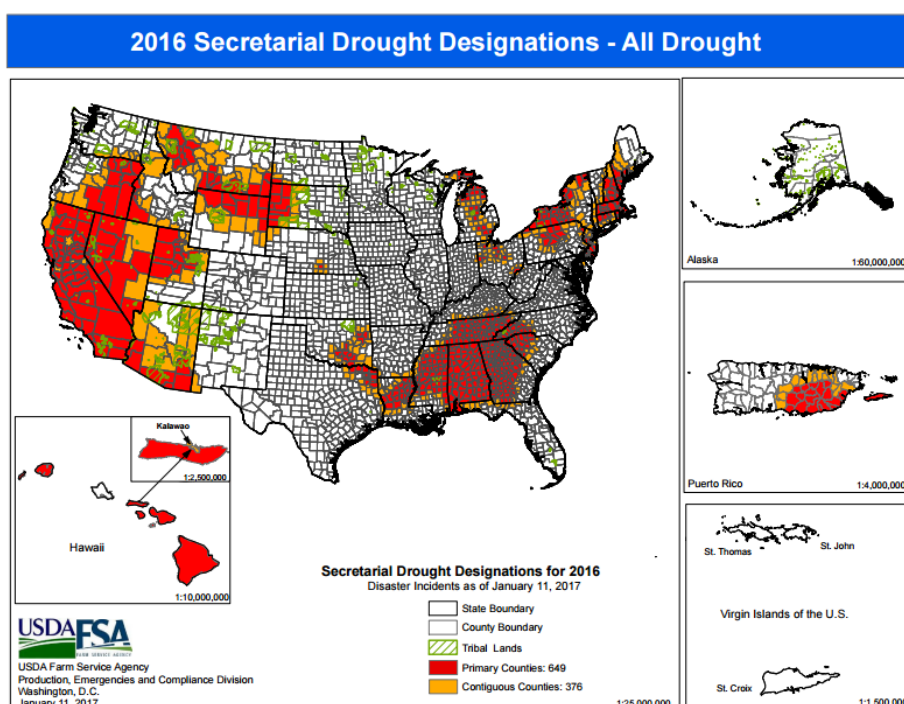
[Changes in drought conditions over the last 12 months](#)

Current National [Drought Summary](#), January 31, 2017

Authors: David Simeral, Western Regional Climate Center

“This U.S. Drought Monitor week saw generally dry conditions across most of the conterminous U.S. during the past week. Snow showers fell across parts of the upper Midwest as well as downwind locations of the Great Lakes where moderate-to-heavy snowfall accumulations were observed. Out West, an overall dry pattern prevailed, and temperatures were well below normal with the greatest departures observed across the Great Basin and Intermountain West. Conversely, temperatures were well above normal across the Northern Plains, Upper Midwest, and New England. Overall, minor improvements were made on the map in parts of the Northeast, Midwest, Desert Southwest, and portions of California.”

USDA 2016 Secretarial [Drought Designations](#)

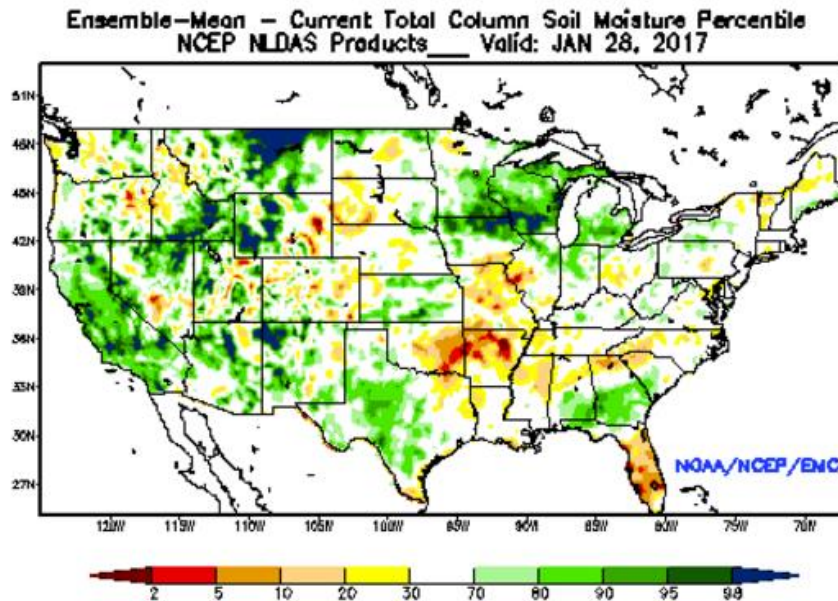


Highlighted Drought Resources

- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

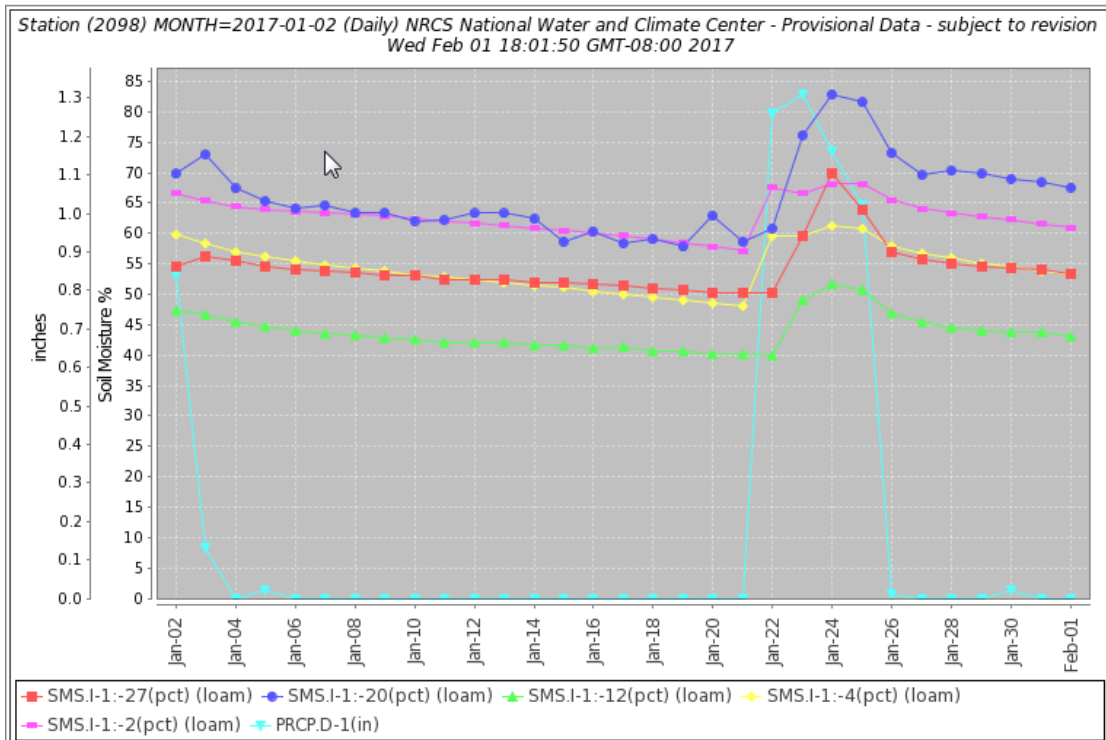
Other Climatic and Water Supply Indicators

Soil Moisture



[Modeled soil moisture percentiles](#) as of January 28, 2017.

Soil Moisture Data: NRCS [Soil Climate Analysis Network](#) (SCAN)



Soil moisture (at 2-, 4-, 8-, 20-, and 40-inch depths) and precipitation for the last 30 days at the [Pua Akala SCAN station 2098](#) in Hawaii. Precipitation events on January 22 – 25 of over 4.5 inches resulted in an increase in soil moisture at all depth sensors.

Soil Moisture Data Portals

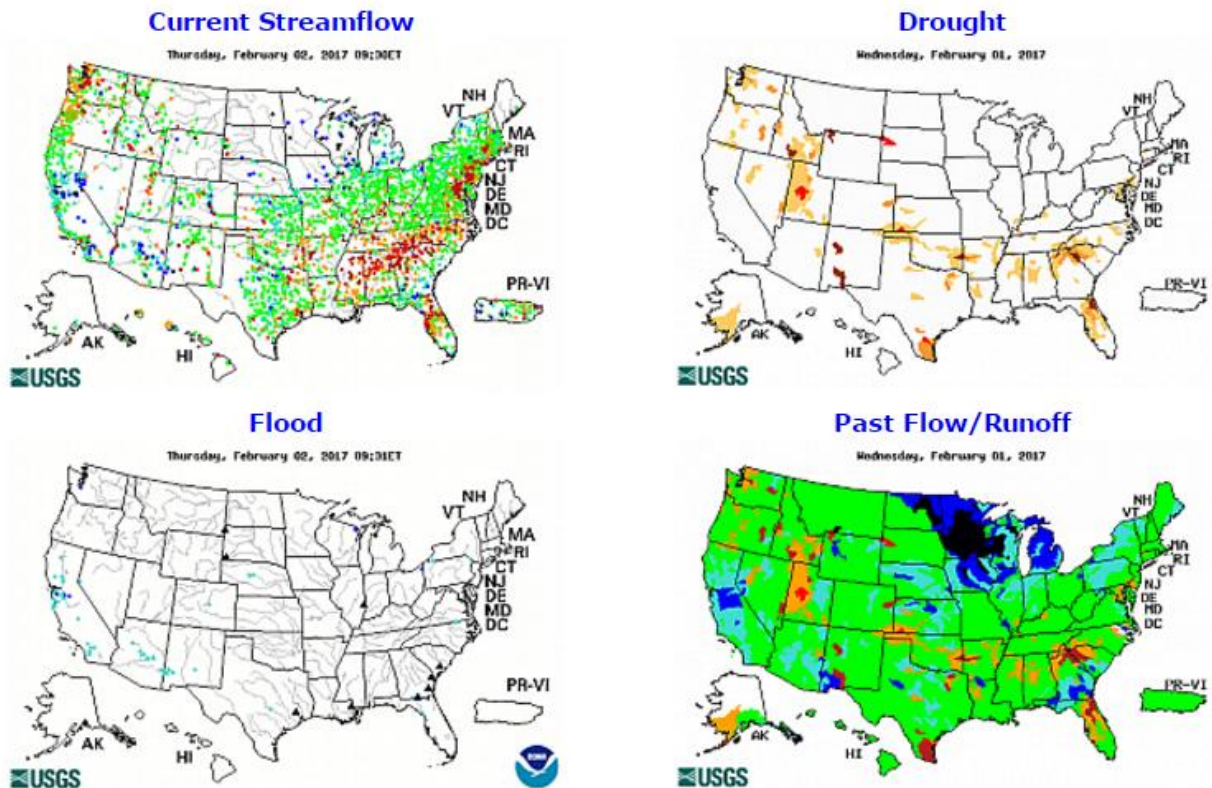
[CRN Soil Moisture](#)

[Texas A&M University North American Soil Moisture Database](#)

[University of Washington Experimental Modeled Soil Moisture](#)

Streamflow

Source: USGS



Click to enlarge and display legends

[Current streamflow maps](#)

Current Reservoir Storage

[National Water and Climate Center Reservoir Data](#)

U.S. Bureau of Reclamation Hydromet Tea Cup Reservoir Depictions:

[Upper Colorado](#)

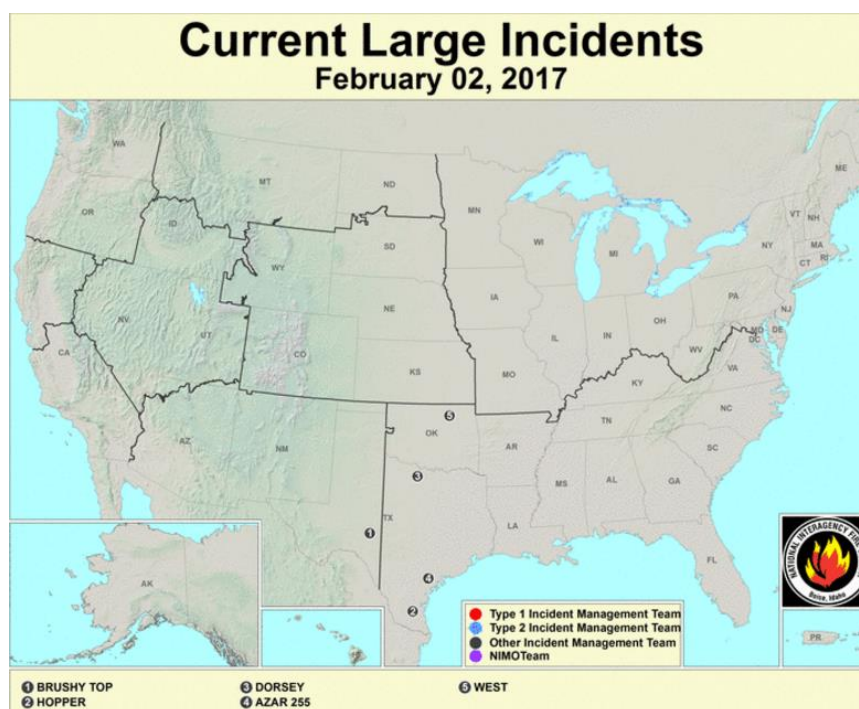
[Pacific Northwest/Snake/Columbia](#)

[Sevier River Water, Utah](#)

[Upper Missouri, Kansas, Oklahoma, Texas](#)

[California Reservoir Conditions](#)

Wildfires: [USDA Forest Service Active Fire Mapping](#)



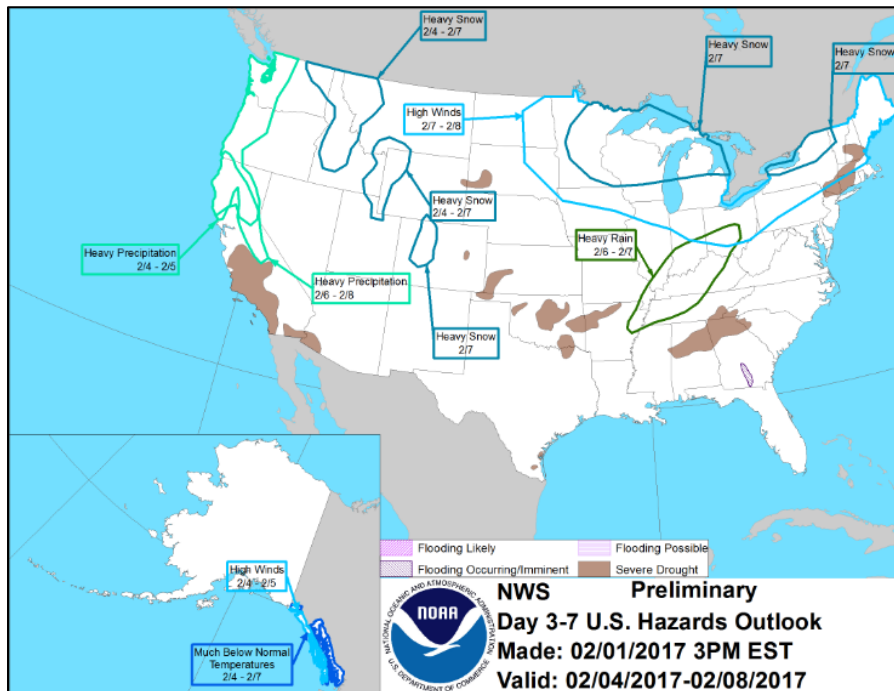
Short- and Long-Range Outlooks

Agricultural Weather Highlights

Author: Eric Luebehusen, Agricultural Meteorologist, USDA/OCE/WAOB

[National Outlook, February 2, 2017](#): “Northern and central California and the Northwest will be the focus for heavy precipitation, including substantial snow in areas already hit hard by a cold, stormy winter. Five-day totals could reach 2 to 10 inches in northern and central California and 1 to 5 inches in the Northwest. The Sierra Nevada, which received more than a year’s worth of snow during the first 4 months (October 2016 – January 2017) of the Western water year, will experience another set of significant storms. In contrast, dry weather will prevail through the weekend in the Southwest and large sections of the Plains. Periods of light precipitation will occur across the eastern half of the U.S., but 5-day totals will be largely an inch or less. Meanwhile, a short-lived surge of colder air will cover the U.S., except the Deep South. Late in the weekend, however, temperatures will rebound to above-normal levels nearly nationwide. The NWS 6- to 10-day outlook for February 7 – 11 calls for the likelihood of above-normal temperatures and precipitation across the majority of the country. Colder-than-normal conditions will be confined to the nation’s northern tier from the Great Lakes region to New England, while drier-than-normal weather should be limited to areas from southern California to the southern half of the Plains.”

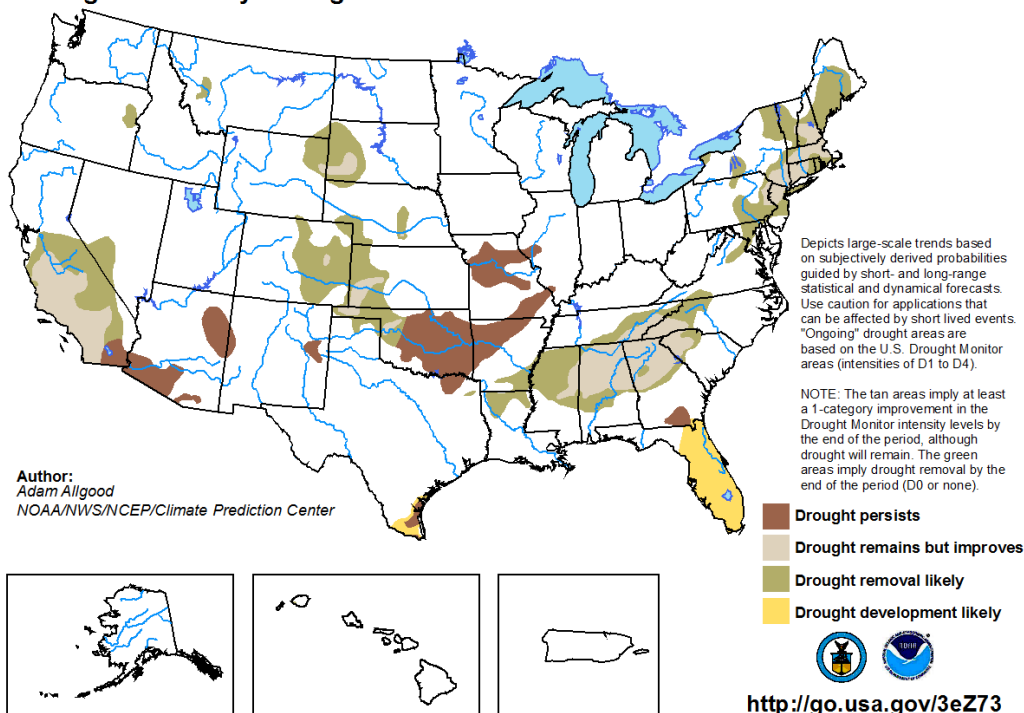
NWS Climate Prediction Center Weather Hazard Outlook: [February 4 – 8, 2017](#)



NWS Seasonal Drought Outlook: [January 19, 2017 – April 30, 2017](#)

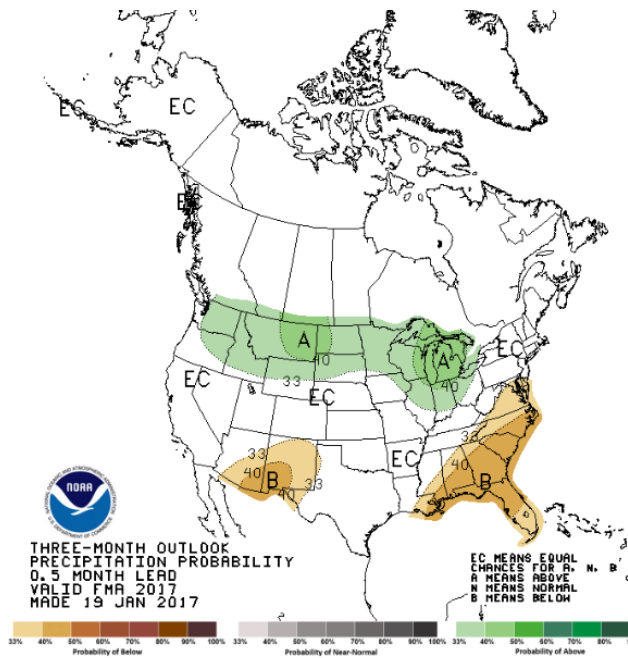
U.S. Seasonal Drought Outlook
 Drought Tendency During the Valid Period

Valid for January 19 - April 30, 2017
 Released January 19, 2017

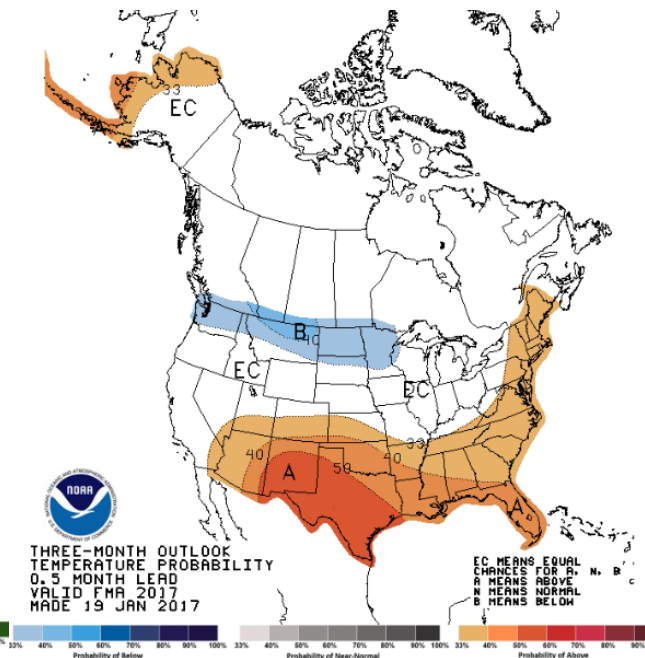


NWS Climate Prediction Center 3-Month Outlook

Precipitation



Temperature



[February-March-April \(FMS\) 2017 precipitation outlook summary](#)

[February-March-April \(FMA\) 2017 temperature outlook summary](#)

More Information

The NRCS [National Water and Climate Center](#) publishes this weekly report. We welcome your feedback. If you have questions or comments, please [contact us](#).